

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S70	1	10/660503	US-PGPUB; USPAT	OR	ON	2006/08/01 06:52
S69	2	((("5289335") or ("6788519"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/08/01 06:52
S71	282965	(spark near2 gap air near2 gap gas near3 discharge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 06:54
S1	271686	(spark near2 gap air near2 gap gas near3 discharge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 06:54
S75	527	S73 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 06:55
S73	6472	S71 and S72	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 06:55
S72	71161	(lightning near2 strike overvoltage voltage near2 transient voltage near2 surge voltage near2 spike)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 06:55
S76	2279231	(insulation insulator isolation insulate insulating insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 06:56
S5	316	S4 and (insulation insulator isolation insulate insulating insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 06:56
S78	37199	S71 same S76	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:23
S81	40	S74 and S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:24

## EAST Search History

S80	549	S72 and S79	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:24
S83	8	("4464583").URPN.	USPAT	OR	ON	2006/08/01 07:39
S82	5	("3509518"   "3857071"   "4025150"   "4296002").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/01 07:39
S85	198	S72 and S84	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:41
S77	326	S75 and S76	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:41
S84	982	S76 near4 spark near3 gap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:49
S86	113	S76 near4 gas near3 discharge near2 tube	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:50
S23	17357	S1 and (insulator isolator insulat\$3 isolat\$3) near2 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:54
S89	144	S72 and S88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:55
S87	619725	(insulator isolator insulat\$3 isolat\$3) near2 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:55
S90	344111	(varistor MOVs non-linear near2 resistor zinc near3 oxide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:58

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S74	13077	(varistor MOVs non-linear near2 resistor zinc near3 oxide) same resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:58
S91	3027	S71 same S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 07:59
S93	534	(361/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/01 08:03
S92	161	S87 and S91	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:03
S94	303	S76 and S93	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:04
S79	9180	S71 near5 S76	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:04
S96	940	S72 and S95	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:27
S95	137674	(protect\$3 prevent\$3) near4 (worker persons people operator human)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:27
S13	102	(protect\$3 prevent\$3) near4 (worker persons people operator human) and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:27
S98	493	(361/127).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/01 08:30
S97	106	S71 and S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:30

## EAST Search History

S99	49	S87 and S98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:31
S88	5195	S71 same S87	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:31
S10 1	119	S71 and S100	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:33
S10 3	580	(361/117).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/01 08:35
S10 2	39	S93 and S98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:35
S10 0	321	S76 and S98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:35
S10 4	337	S76 and S103	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:43
S10 6	1	terence near3 deines	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:44
S10 5	11	british near2 columbia near2 hydro.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:44
S10 7	43	christopher near3 morton	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 08:46
S11 0	737	insulat\$3 near3 gap and S109	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 13:10

## EAST Search History

S10 9	71161	(lightning near2 strike overvoltage voltage near2 transient voltage near2 surge voltage near2 spike)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 13:10
S10	1570	S8 and (lightning near2 strike overvoltage voltage near2 transient voltage near2 surge voltage near2 spike)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 13:10
S3	12828	(varistor MOVs non-linear near2 resistor zinc near3 oxide) same resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 13:10
L3	10	("3348100"   "3418530"   "3510726"   "3518492"   "3611044"   "3683234").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 05:58
L4	6	("2862152"   "3418530"   "3510726").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 05:59
L6	6	("3519878"   "3611044"   "3859568"   "3859569"   "4004193").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 06:00
L7	3	("4158872").URPN.	USPAT	OR	ON	2006/08/02 06:01
L2	25	1 and (varistoe MOVs non- near3 linear near3 resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:05
L1	519	(gap near2 arrester gap near3 spark gas near3 discahrge) near3 (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:05
L12	80	361/120,127.CCLS. AND (insulating insulation insulated) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:22
L11	0	361/120,127.CCLS. SAME (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:22
L10	752	361/120,127.CCLS. AND (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:22
L13	18	("1211822"   "1212129"   "1966077"   "2208399"   "3246206"   "3566197"   "3585449"   "3654511"   "3673459"   "3777179"   "3809959"   "4233641"   "4652964").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 06:28

## EAST Search History

L16	30	15 and (varistor MOVs non near3 linear near3 resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:31
L14	252	(gap near2 arrester gap near3 spark gas near3 discharge) same (insulating insulation insulated) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:31
L9	302	8 and (varistoe MOVs non- near3 linear near3 resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:31
L8	4790	(gap near2 arrester gap near3 spark gas near3 discharge) same (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:31
L18	4	("2862152"   "4198668"   "4625254").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 06:35
L17	3	("4625254"   "4652963"   "4860156").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 06:35
L20	4	("4625254").URPN.	USPAT	OR	ON	2006/08/02 06:36
L19	8	("2862152"   "2878428"   "4174529"   "4295174"   "4347539"   "4432029").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 06:36
L21	8	("2862152"   "2878428"   "4174529"   "4295174"   "4347539"   "4432029").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 06:42
L22	5	("3641358"   "4152743"   "4164772"   "4347539"   "4432029").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 06:47
L15	1736	(gap near2 arrester gap near3 spark gas near3 discharge) same (insulating insulation insulated) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 06:50
S2	6289	S1 and (lightning near2 strike overvoltage voltage near2 transient voltage near2 surge voltage near2 spike)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 07:00
L23	187	(gap near2 arrester gap near3 spark gas near3 discharge) near4 (insulating insulation insulated) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 07:00

## EAST Search History

L25	71161	(lightning near2 strike overvoltage voltage near2 transient voltage near2 surge voltage near2 spike)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 07:01
L28	9	"2337743"	EPO; JPO; DERWENT	OR	ON	2006/08/02 07:37
L24	1470	(gap near2 arrester gap near3 spark gas near3 discharge) near3 (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 07:40
L29	94	(gap near2 arrester gap near3 spark gas near3 discharge) near3 (insulating insulation insulated) near2 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 08:44
L30	1174	(gap near2 arrester gap near3 spark gas near3 discharge) same (insulating insulation insulated) near2 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 09:00
L32	315	(gap near2 arrester gap near3 spark gas near3 discharge) near7 (insulating insulation insulated) near2 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 09:03
L34	1273	(gap near2 arrester gap near3 spark) near9 (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 09:17
L33	52	(gap near2 arrester gap near3 spark) near9 (insulating insulation insulated) near2 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 09:17
L39	2	("5436608"   "5450274").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 09:26
L41	6	("4727350"   "4912592"   "5029302"   "5663864"   "5694284"   "5745330").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 09:28
L43	2	("5663864").URPN.	USPAT	OR	ON	2006/08/02 09:30
L42	2	("4404614"   "Re28619").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 09:30
L44	20	("2992310"   "3046536"   "3254179"   "3340431"   "3522570"   "3535779"   "3755715"   "3858077"   "4051546"   "4062054"   "4212047"   "4303959"   "4371911"   "4717902").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 09:35
L45	14	("5029302").URPN.	USPAT	OR	ON	2006/08/02 09:36

## EAST Search History

L46	12	("4062054"   "4150414"   "4303959"   "4320435"   "4910489"   "4912592"   "4984125"   "5029302"   "5248953"   "5475356"   "5633777"   "5644465").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 09:37
L47	6	("1595737"   "4410831"   "4451815"   "4504766"   "4542365").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 09:43
L50	1	("4371911").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/02 09:56
L49	1	("4717911").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/02 09:56
L48	9	("4727350").URPN.	USPAT	OR	ON	2006/08/02 09:56
L52	5	("4371911").URPN.	USPAT	OR	ON	2006/08/02 09:59
L51	4	("4034326"   "4056840"   "4191987"   "4212047").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 09:59
L53	5	("4371911").URPN.	USPAT	OR	ON	2006/08/02 10:00
L54	4	("4034326"   "4056840"   "4191987"   "4212047").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 10:02
L55	2	((("2992310") or ("3046536"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/08/02 10:03
L35	519	(gap near2 arrester gap near3 spark) near3 (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 10:04
L58	11	("3535582").URPN.	USPAT	OR	ON	2006/08/02 10:42
L59	1	("5029302").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/02 10:45
L61	1	10/660503	US-PGPUB; USPAT	OR	ON	2006/08/02 10:46
L57	302	56 same (insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 10:48
L62	57957	(melt soften) near3 (layer film insulating insulation insulated)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 10:49
L64	47	(gap near2 arrester gap near3 spark) and 62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 10:51
L63	11	(gap near2 arrester gap near3 spark) same 62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 10:51



## EAST Search History

L56	1061	(gap near2 arrester gap near3 spark) same short near2 circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 11:15
L65	2903	(gap near2 arrester gap near3 spark) and electrodes near4 (insulation insulating insulated layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 11:16
L66	377	65 and short near2 circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 11:17